

STATE OF MISSOURI
MISSOURI DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY PROGRAM

FORM OGC-3

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

<input checked="" type="checkbox"/> APPLICATION TO DRILL		<input type="checkbox"/> DEEPEN	<input type="checkbox"/> PLUG BACK	<input checked="" type="checkbox"/> FOR AN OIL WELL	<input type="checkbox"/> OR GAS WELL		
NAME OF COMPANY OR OPERATOR Osborn Energy, LLC				DATE 10/20/2006			
ADDRESS 24850 Farley		CITY Bucyrus		STATE KS	ZIP CODE 66013		
DESCRIPTION OF WELL AND LEASE							
NAME OF LEASE Osborn		WELL NUMBER 54-16		ELEVATION (GROUND) 990'			
WELL LOCATION (GIVE FOOTAGE FROM SECTION LINES) 2475 ft. from <input checked="" type="checkbox"/> North <input type="checkbox"/> South section line 330 ft. from <input type="checkbox"/> East <input checked="" type="checkbox"/> West section line							
WELL LOCATION Sec. 16 Township 43 North Range 33 <input type="checkbox"/> East <input checked="" type="checkbox"/> West		LATITUDE		LONGITUDE	COUNTY Cass		
NEAREST DISTANCE FROM PROPOSED LOCATION TO PROPERTY OR LEASE LINE 165 FEET							
DISTANCE FROM PROPOSED LOCATION TO NEAREST DRILLING, COMPLETED OR APPLIED - FOR WELL ON THE SAME LEASE 330 FEET							
PROPOSED DEPTH 600'	DRILLING CONTRACTOR, NAME AND ADDRESS Obborn Energy, LLC		ROTARY OR CABLE TOOLS air		APPROX. DATE WORK WILL START 11/06/2006		
NUMBER OF ACRES IN LEASE 4000	NUMBER OF WELLS ON LEASE INCLUDING THIS WELL, COMPLETED IN OR DRILLING TO THIS RESERVOIR 8						
IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED? NAME _____ ADDRESS _____			NO. OF WELLS _____ PRODUCING _____ INJECTION _____ INACTIVE _____ ABANDONED _____				
STATUS OF BOND		<input type="checkbox"/> SINGLE WELL AMOUNT \$ _____	<input checked="" type="checkbox"/> BLANKET BOND AMOUNT \$ 34000.00		<input checked="" type="checkbox"/> ON FILE <input type="checkbox"/> ATTACHED		
REMARKS: (IF THIS IS AN APPLICATION TO DEEPEN OR PLUG BACK, BRIEFLY DESCRIBE WORK TO BE DONE, GIVING PRESENT PRODUCING/INJECTION ZONE AND EXPECTED NEW INJECTION ZONE; USE BACK OF FORM IF NEEDED)							
PROPOSED CASING PROGRAM				APPROVED CASING - TO BE FILLED IN BY STATE GEOLOGIST			
AMOUNT	SIZE	WT/FT	CEMENT	AMOUNT	SIZE	WT/FT	CEMENT
20'	7"		to surface	20'	7"		Portland to Surface
600'	2 7/8"		to surface	600'	2 7/8"		11 11
I, the Undersigned, state that I am the Agent of the OELLC (Company), and that I am authorized by said company to make this report, and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct, and complete to the best of my knowledge.							
SIGNATURE <i>Michael L. Penn</i>				DATE Oct 25, 2006			
PERMIT NUMBER 20776		<input type="checkbox"/> DRILLER'S LOG REQUIRED <input type="checkbox"/> E-LOGS REQUIRED IF RUN					
APPROVED DATE 11-1-06		<input type="checkbox"/> CORE ANALYSIS REQUIRED IF RUN <input type="checkbox"/> DRILL SYSTEM TEST INFO REQUIRED IF RUN					
APPROVED BY <i>Michael L. Penn</i>		<input type="checkbox"/> SAMPLES REQUIRED <input type="checkbox"/> SAMPLES NOT REQUIRED					
		<input type="checkbox"/> WATER SAMPLES REQUIRED AT					
NOTE - THIS PERMIT NOT TRANSFERABLE TO ANY OTHER PERSON OR TO ANY OTHER LOCATION.							
APPROVAL OF THIS PERMIT BY THE OIL AND GAS COUNCIL DOES NOT CONSTITUTE ENDORSEMENT OF THE GEOLOGIC MERITS OF THE PROPOSED WELL NOR ENDORSEMENT OF THE QUALIFICATIONS OF THE PERMITTEE							
I, Agent of the OELLC (Company), confirm that an approved drilling permit has been obtained by the owner of this well. Council approval of this permit will be shown on this form by presence of a permit number and signature of authorized council representative.							
DRILLER'S SIGNATURE <i>Michael L. Penn</i>				DATE Oct 25, 2006			

NORTHWEST CORNER
SECTION 17-43-33



SECTION LINE

SECTION LINE

2145'

2475'

PROPOSED GAS
WELL NO. 47

PROPOSED GAS
WELL NO. 46

PROPOSED GAS
WELL NO. 44

330'

330'

PROPOSED GAS
WELL NO. 45

330'

330'

PROPOSED GAS
WELL NO. 43

PROPOSED GAS
WELL NO. 53

330'

97'

330'

PROPOSED GAS
WELL NO. 54

330'

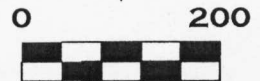
330'

PROPOSED GAS
WELL NO. 56

PROPOSED GAS
WELL NO. 52

PROPOSED GAS
WELL NO. 55

SOUTHEAST CORNER
SECTION 17-43-33



PROPOSED GAS WELL



FOUND MONUMENT @ SECTION CORNER

FOR: OSBORN ENERGY

GAS WELL LOCATIONS



JOHN RENNER
LAND SURVEYOR
6247 BROOKSIDE BOULEVARD
SUITE 204
KANSAS CITY, MO 64113
816-333-8841

NOTES:

THIS IS NOT A BOUNDARY SURVEY. IT IS FOR
PROPOSED GAS WELL LOCATION.

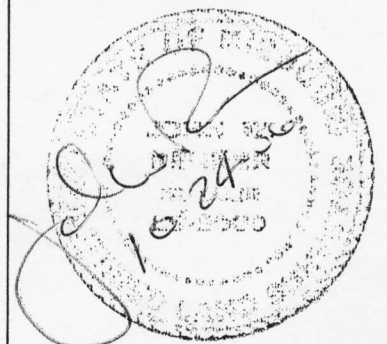
RECEIVED

NOV 01 2006

Mo Oil & Gas Council

DATE: 10-20-2006

JOB No.: 10-06-024





STATE OF MISSOURI
MISSOURI DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY PROGRAM

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

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FORM OGC-5

FEB 13 2009

☒ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ INJECTION ☐ SAME RESERVOIR ☐ DIFFERENT RESERVOIR ☒ OIL ☐ GAS ☐ DRY

OWNER Osborn Energy, LLC		ADDRESS 24850 Farley, Bucyrus, KS 66013	
LEASE NAME Osborn		WELL NUMBER 54-16	
LOCATION OF WELL Sec. 16 Twp 43 North, Rng 33 <input type="checkbox"/> East <input checked="" type="checkbox"/> West OR 2475 ft. from <input checked="" type="checkbox"/> North <input type="checkbox"/> South 330 ft. from <input type="checkbox"/> East <input checked="" type="checkbox"/> West		LATITUDE	LONGITUDE
COUNTY Cass	PERMIT NUMBER (OGC-3 OR OGC-31) 20776		
DATE SPUDDED 11/6/2006	DATE TOTAL DEPTH REACHED 11/9/2006	DATE COMPLETED READY TO PRODUCE OR INJECT 6/9/2007	ELEVATION (DF, RKR, RT, OR Gr.) FEET 990
TOTAL DEPTH 518		ELEVATION OF CASING HD. FLANGE FEET	
PRODUCING OR INJECTION INTERVAL(S) FOR THIS COMPLETION 443-453		ROTARY TOOLS USED (INTERVAL) 0 TO 518	CABLE TOOLS USED (INTERVAL)
WAS THIS WELL DIRECTIONALLY DRILLED? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		DRILLING FLUID USED air	DATE FILED
WAS DIRECTIONAL SURVEY MADE? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		WAS COPY OF DIRECTIONAL SURVEY FILED? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	DATE FILED
TYPE OF ELECTRICAL OR OTHER LOGS RUN (JUST LOGS FILED WITH THE STATE GEOLOGIST) Gamma Ray Neutron			DATE FILED

CASING RECORD

CASING (REPORT ALL STRINGS SET IN WELL - CONDUCTOR, SURFACE, INTERMEDIATE, PRODUCING, ETC.)

PURPOSE	SIZE HOLE DRILLED	SIZE CASING SET	WEIGHT (LB. FT)	DEPTH SET	SACKS CEMENT	AMOUNT PULLED
Surface	9 1/2"	7"	17	20'	6	
Production	6 1/4"	2 7/8"	6 1/2"	518	108	

TUBING RECORD

LINER RECORD

SIZE	DEPTH SET	PACKER SET AT	SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
INCH	FEET	FEET	INCH	FEET	FEET		FEET

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

NUMBER PER FEET	SIZE AND TYPE	DEPTH INTERVAL	AMOUNT AND KIND OF MATERIAL USED	DEPTH INTERVAL
2	2" DML RTG	443-453		443-453

INITIAL PRODUCTION

DATE OF FIRST PRODUCTION OR INJECTION 6/9/2007		PRODUCING METHOD (INDICATE IF FLOWING, GAS LIFT, OR PUMPING - IF PUMPING, SHOW SIZE AND TYPE OF PUMP.) Pumping 1 1/2" insert bbl					
DATE OF TEST	HOURS TESTED 24	CHOKE SIZE	OIL PRODUCED DURING TEST 2 BBLS	GAS PRODUCED DURING TEST MCF	WATER PRODUCED DURING TEST 2 BBLS	OIL GRAVITY API (CORR.)	
TUBING PRESSURE	CASING PRESSURE	CALCULATED RATE OF PRODUCTION PER 24 HOURS		OIL 2 BBLS	GAS 0MCF	WATER 2 BBLS	GAS OIL RATIO

DISPOSITION OF GAS (STATE WHETHER VENTED, USED FOR FUEL OR SOLD)

METHOD OF DISPOSAL OF MUD PIT CONTENTS

Let water evaporate, then fill pit with a backhoe

CERTIFICATE: I, the Undersigned, state that I am the Agent of the OELLC (Company), and that I am authorized by said company to make this report, and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

DATE 2-10-09	SIGNATURE <i>Custer Hanklin</i>
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Geological Report

Mo Oil & Gas Council

Osborn 54-16

Section 16-T43N-R33W

Cass Co., Missouri

Permit #20776

Elevation:

Drilling Contractor: Osborn Energy, LLC

Spud 11-06-06

Total Rotary Depth: 518' on 11-09-06

<u>Formation</u>	<u>Driller Log Tops</u>	<u>Datum</u>
Anna Shale (Lexington)	372'	
Summit Shale	418'	
Mulky Coal/Shale	438'	
Squirrel Sand	440'	
Total Depth	518'	

440-444 SS: clear, fine grained, angular to sub-rounded, moderately sorted, slightly micaceous

444-451 SS: clear, brown oil stain, fine grained, angular to sub-rounded, moderately sorted, slightly micaceous, strong odor, free oil

451-453 LS: brown, sandy, free oil

454-518 SH: gy

Total Depth 518' on 11-09-06

Brief Summary

Lexington	Small open flow
Squirrel Sand	9' of pay, moderate bleed

27184

FEB 13 2009

08969

08969
Oil & Gas Council

Customer supplied water.

Alan Mader

12.8%	SALES TAX	70.37
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DATE Alma Mayer

ESTIMATED TOTAL	2310.42
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CEMENTING WORK ORDER

CONSOLIDATED OIL WELL SERVICES, INC.
Phone (620) 431-9210 Chanute, Kansas 66720

DAY _____ Wed _____
DATE _____ 12/27/2006 _____
Month / Day / Time

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NAME OF CUSTOMER: _____ Osborn _____

Mo Oil & Gas Council

LEASE # Osborn WELL # 54

JOB DESCRIPTION _____ cem _____

PIPE SIZE: _____ 2 7/8 _____ SIZE OF HOLE: _____ 6 1/4 _____

DEPTH OF WELL: _____ 518 _____

TYPE OF RIG: AIR MUD

AMOUNT OF CEMENT NEEDED: _____ 111 sks 50/50 Poz _____

% OF GEL NEEDED: _____ 2% _____

MATERIALS: _____ 108 sks poz, 422# gel _____

TRUCKS: VAC TRANSPORT

LOCATION OF JOB _____

_____ 389-AM, 368-MM, 122-KH _____

ORDER TAKEN BY: _____ Jim Green